Dr. Thomas J. Müller
Institut für Meereskunde
Forschungsbereich 1
Düsternbrooker Weg 20
24105 Kiel

Datum: 26.02.01
Tel. (0431) 597-3799
Fax: (0431) 597-3891 (direkt)
Fax: (0431) 565876 (IfM zentral)
Internet: tmueller@ifm.uni-kiel.de

An:
DOD
im BSH, Hamburg

mit der Bitte um

- ☒ Kenntnisnahme
- ☐ Erledigung
- ☐ weitere Veranlassung
- ☐ Rückgabe
- ☒ zum Verbleib
- ☐ mit Dank zurück

Bemerkungen Anbei CSR von Poseidon 261, Juni/Juli 2000.

Tschüß

Thomas J. Müller

CRUISE SUMMARY REPORT

FOR COLLATING CENTRE USE

Centre: ..... Ref. No: .....

Is data exchange restricted? ☐ Yes ☐ In part ☐ No

SHIP enter the full name and international radio call sign of the ship from which the data were collected, and indicate the type of ship, for example, research ship; ship of opportunity, naval survey vessel; etc.

Name: POSEIDON Call Sign: DBKV

Type of ship: R/V

CRUISE NO./NAME P261 SFB460/TP A3 — enter the unique number, name or acronym assigned to the cruise (or cruise leg, if appropriate).

CRUISE PERIOD start (set sail) 27 06 2000 (day month year) to 14 07 2000 (day month year) end (return to port)

PORT OF DEPARTURE (enter name and country) Cork, Ireland

PORT OF RETURN (enter name and country) Reykjavik, Iceland

RESPONSIBLE LABORATORY enter name and address of the laboratory responsible for coordinating the scientific planning of the cruise.

Name: Institut für Meereskunde Kiel, IFMK

Address: Düsternbrooker Weg 20

24105 KIEL Country: Germany

CHIEF SCIENTIST(S) enter name and laboratory of the person(s) in charge of the scientific work (chief of mission) during the cruise.

Dr. Thomas J Müller, IFMK

OBJECTIVES AND BRIEF NARRATIVE OF CRUISE enter sufficient information about the purpose and nature of the cruise so as to provide the context in which the reported data were collected.

To investigate the pathways of overflow water in the eastern North Atlantic within the special research programme "Thermohaline Zirkulationsschwankungen" (SFB460) the objectives were:

- recover 4 mooring in the eastern entrance to the Charlie Gibbs Fracture Zone (CGFZ),
- deploy 4 mooring on the eastern flank of the Reykjanes Ridge (1504)
- launch RAFOS floats
- take stations on hydrographic sections and to investigate CH_4 balances
- take CH_4 samples near CGFZ as a CH_4 source

PROJECT (IF APPLICABLE) if the cruise is designated as part of a larger scale cooperative project (or expedition or programme), then enter the name of the project, and of the organisation responsible for coordinating the project.

Project name: SFB460

Coordinating body: IFMK

PRINCIPAL INVESTIGATORS: Enter the name and address of the ... and who may be contacted for further information about the data. (The letter assigned below against each Principal Investigator is used on pages 2 and 3, under the column heading 'PI', to identify the data sets for which he/she is responsible)

A. Dr. Thomas J. Müller, IFM Kiel

B. Dr. Robin Keir, Geomar, Kiel

C. Dr. Walter Zenk, IFM Kiel

D.

E.

F.

MOORINGS, BOTTOM MOUNTED GEAR AND DRIFTING SYSTEMS

This section should be used for reporting moorings, bottom mounted gear and drifting systems (both surface and deep) deployed and/or recovered during the cruise. Separate entries should be made for each location (only deployment positions need be given for drifting systems). This section may also be used to report data collected at fixed locations which are returned to routinely in order to construct 'long time series'.

PI (see top of page)	APPROXIMATE POSITION LATITUDE deg	min	N/S	LONGITUDE deg	min	E/W	DATA TYPE (enter code(s) from list on cover page.)	DESCRIPTION (Identify, as appropriate, the nature of the instrumentation, the parameters (to be) measured, the number of instruments and their depths, whether deployed and/or recovered, dates of deployment and/or recovery, and any identifiers given to the site.)
A	52	26	N	029	50	W	D01	recovered; RCM8: 1693, 3024, 3380, 3630, 3783 m.
A	52	48	N	029	58	W	D01	recovered; RCM8: 1800, 2599, 2686, 2988, 3183, 3336 m
A	53	15	N	030	17	W	D01	recovered; RCM8: 2770, 3050 m
A	52	04	N	029	40	W	D01	recovery; RCM8: 1710, 3418, 3673 m
A	59	47	N	020	57	W	D01,	deployement; 5×RCM8, 2×MC
A	60	31	N	021	36	W	D01	deployement; 5×RCM8, 2×MC
A	61	04	N	022	11	W	D01	deployement; 4×RCM8, 1×MC
A	61	37	N	022	48	W	D01	deployement; 3×RCM8
G	50	25	N	016	50	W	D90	9 × RAFOS floats, ca 1500 m
	to			to				
	51	50	N	029	33	W		
C	60	47	N	021	49	W	D90	1× RAFOS float, ca 1500 m

Please continue on separate sheet if necessary.

SUMMARY OF MEASUREMENTS AND SAMPLES TAKEN

Except for the data already described on page 2 under 'Moorings, Bottom Mounted Gear and Drifting Systems', this section should include a summary of all data collected on the cruise, whether they be measurements (e.g. temperature, salinity values) or samples (e.g. cores, net hauls).

Separate entries should be made for each distinct and coherent set of measurements or samples. Different modes of data collection (e.g. vertical profiles as opposed to underway measurements) should be clearly distinguished, as should measurement/sampling techniques that imply distinctly different accuracies or spatial/temporal resolutions. Thus, for example, separate entries would be created for i) BT drops, ii) water bottle stations, iii) CTD casts, iv) towed CTD, v) towed undulating CTD profiler, vi) surface water intake measurements, etc.

Each data set entry should start on a new line - it's description may extend over several lines if necessary.

NO, UNITS : for each data set, enter the estimated amount of data collected expressed in terms of the number of: 'stations'; 'miles' of track; 'days' of recording; 'cores' taken; net 'hauls'; balloon 'ascents'; or whatever unit is most appropriate to the data. The amount should be entered under 'NO' and the counting unit should be identified in plain text under 'UNITS'.

PI	NO	UNITS	DATA TYPE	DESCRIPTION
see page 2	see above	see above	enter code(s) from list on cover page.	Identify, as appropriate, the nature of the data and of the instrumentation/sampling gear and list the parameters measured. Include any supplementary information that may be appropriate, e.g. vertical or horizontal profiles, depth horizons, continuous recording or discrete samples, etc. For samples taken for later analysis on shore, an indication should be given of the type of analysis planned, i.e. the purpose for which the samples were taken.
A	38	stat.	H10	CTD, salinity for calibration
B	20	stat	H90	samples for CH_4

Please continue on separate sheet if necessar

...ould be strongly encouraged to submit, with the completed report, an annotated track chart illustrating the route followed and the points where measurements were taken.

Insert a tick (✓) in this box if a track chart is supplied. ✓

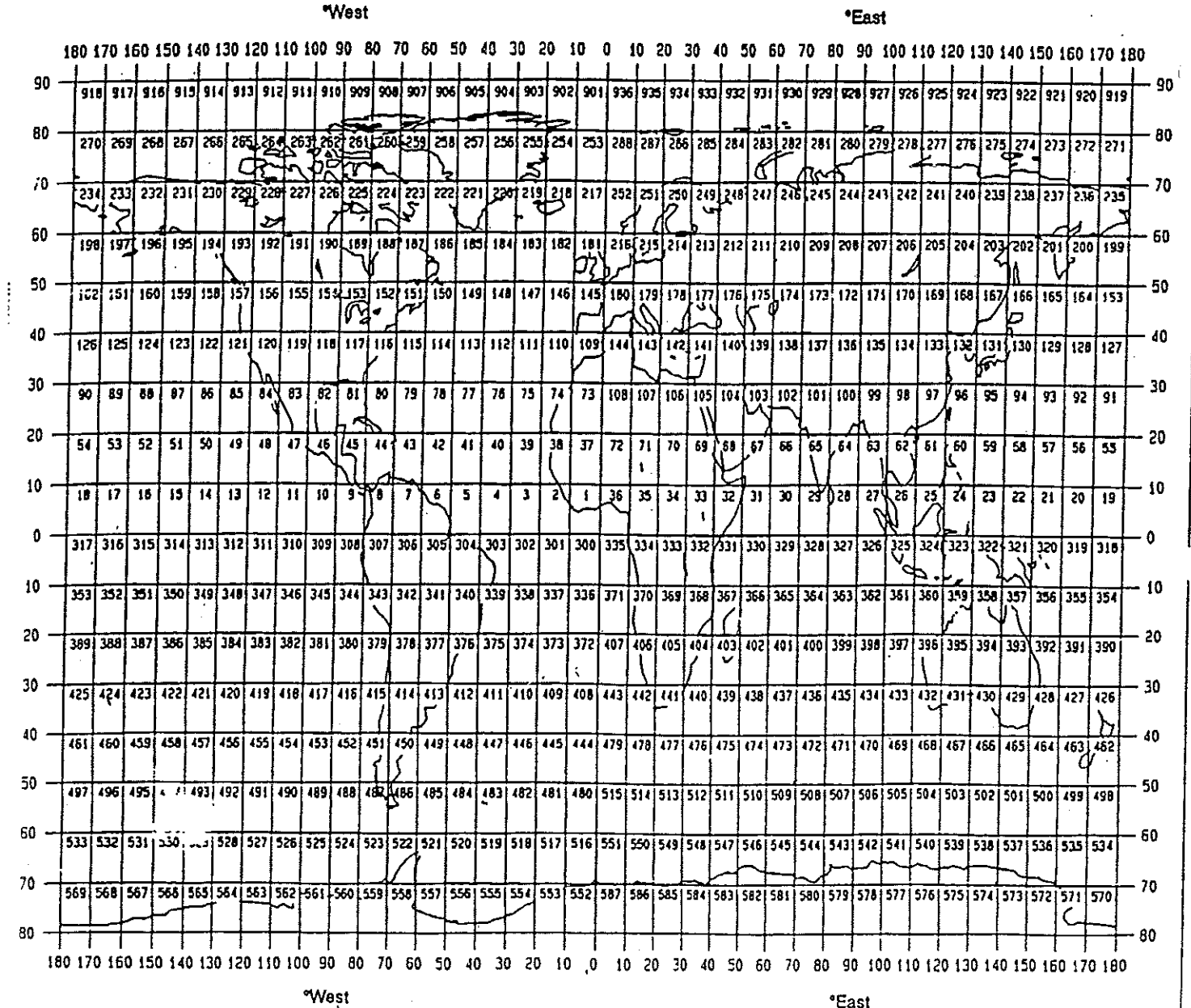
GENERAL OCEAN AREA(S): Enter the names of the oceans and/or seas in which data were collected during the cruise - please use commonly recognised names (see, for example, International Hydrographic Bureau Special Publication No. 23, 'Limits of Oceans and Seas').

Iceland Sea

SPECIFIC AREAS: If the cruise activities were concentrated in a specific area(s) of an ocean or sea, then enter a description of the area(s). Such descriptions may include references to local geographic areas, to sea floor features, or to geographic coordinates.

182, 183, 218, 219

GEOGRAPHIC COVERAGE - INSERT 'X' IN EACH SQUARE IN WHICH DATA WERE COLLECTED



THANK YOU FOR YOUR COOPERATION

Please send your completed report without delay to the collating centre indicated on the cover page

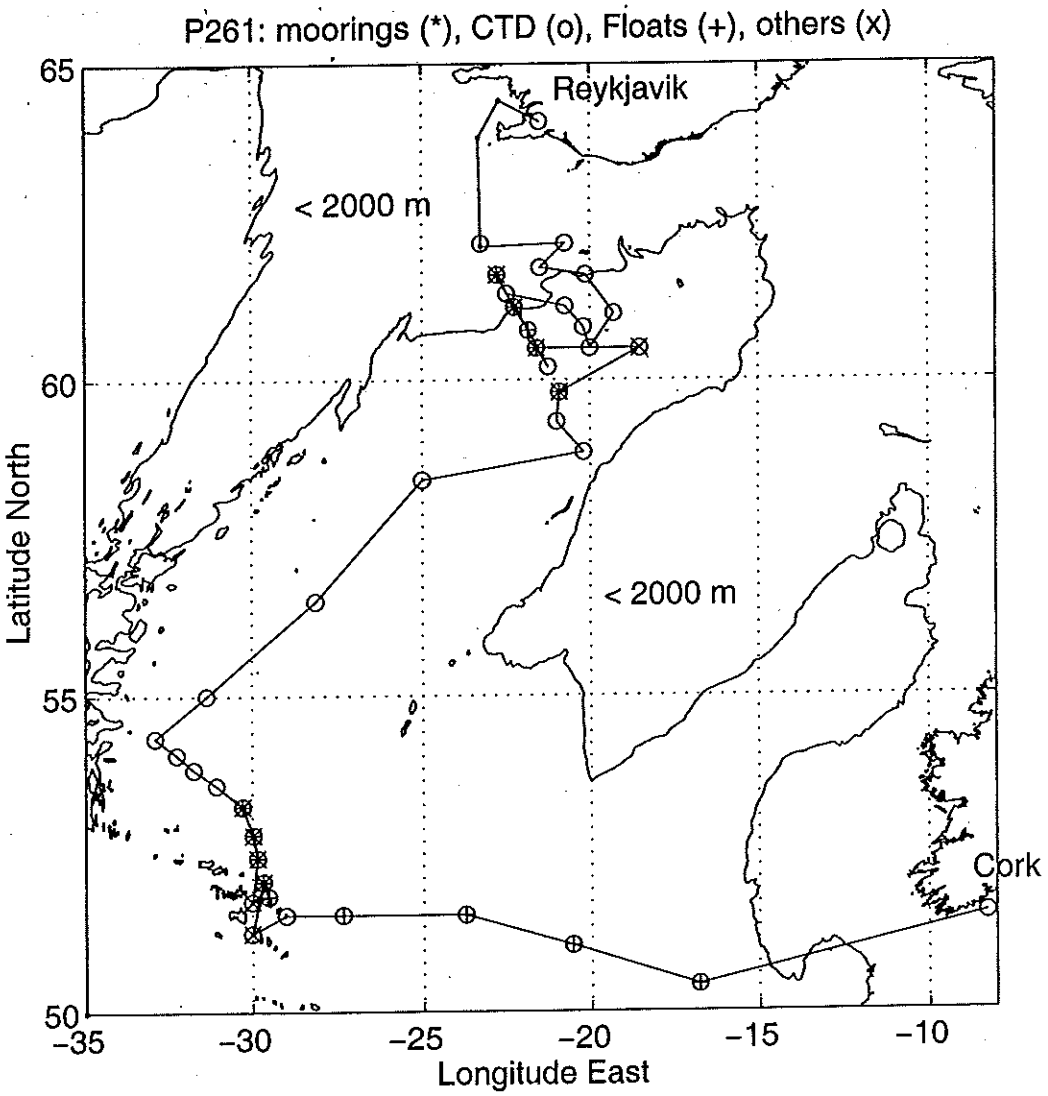
POSEIDON 261 station and sample log
Status: 28-JUL-2000, 20:00.

List of abbreviations:
St : Station no.
C : CTD cast no., monotonically increasing during the cruise;
x all casts to near bottom if not indicated else
Wd : Sounding, 1500 m/s
Instr : instrument symbol
mooring: 1
CTD : 2, FSI ICTD 12x12 1 bottle rosette
float : 3, RAFOS type, 1500 m mission depth
vmADCP : 4, vessel mounted RDI ADCP, 150 KHz
PC-LOG : 4, on-line log of GPS date, time, position, pitch & roll; near-surface T, S; meteorological data

Additional sensors on and samples taken from CTD/rosette:
S salt
M Methane CH4
N nutrients
C CO2 Alkalinity profile for CO2 system .

Date year 2000 MM DD	Time UTC hhmm	St	C	Latitude North DD MM.MM	Longitude East DDD MM.MM	Wd m	Inst. depth m	Inst. type	Samples / remarks
06 27	0900	-9	-9	51 32.40	-08 -16.80	-9	-9	2	Sail from Cork
06 28	1658	-9	-9	50 33.60	-015 -36.70	4254	4	4	Start PC-LOG;
06 28	1658	-9	-9	50 33.60	-015 -36.70	4254	4	4	Start vADCP
06 28	2043	166	001	50 24.96	-016 -46.10	4753	4782	2	FSI, M, S
06 29	0020	166	-9	50 25.46	-016 -49.84	4767	1500	3	Rafos-float 405
06 29	1542	167	002	51 03.01	-020 -34.06	4330	4330	2	FSI, M, S
06 29	1832	167	-9	51 02.95	-020 -34.74	4332	1500	3	Rafos-float 513
06 30	0700	168	003	51 31.98	-023 -46.09	3538	3532	2	FSI, S
06 30	0700	168	-9	51 31.98	-023 -46.09	3538	4	4	vADCP Bit Fail, restart
06 30	0925	168	-9	51 32.40	-023 -45.79	3562	1500	3	Rafos-float 514
06 30	1900	-9	-9	99 99	999 99	-999	-9	4	Fail of echosounding
06 30	2030	-9	-9	99 99	999 99	-999	-9	4	Start TSG
06 30	2150	-9	-9	99 99	999 99	-999	-9	4	Restart of echosounding
06 30	2330	169	004	51 31.92	-027 -20.05	3337	3338	2	FSI, M, S
07 01	0210	169	-9	51 32.14	-027 -14.47	3338	1500	3	Rafos-float 515
07 01	0844	170	005	51 31.88	-029 -00.17	-999	2235	2	FSI, S; no bottom alarm
07 01	1455	171	006	51 14.77	-030 -00.14	-999	1001	2	FSI, M, S
07 01	1612	171	007	51 15.02	-029 -59.84	-999	3665	2	FSI, M, S
07 02	0734	172	-9	52 03.85	-029 -40.00	3723	1738	1	V395-01 / Z recovery
07 02	1000	173	008	52 03.97	-029 -40.12	3714	3713	2	FSI, M, S
07 02	1118	173	009	52 03.97	-029 -40.28	3715	3713	2	FSI, M, S
07 02	1514	174	010	51 49.87	-029 -31.24	2271	2271	2	FSI, S; no bottom alarm
07 02	1655	175	-9	51 49.84	-029 -30.86	2260	1500	3	Rafos-float 416 Fl-park
07 02	1710	175	-9	51 49.82	-029 -31.71	2260	1500	3	Rafos-float 414 Fl-park
07 02	1720	175	-9	51 49.69	-029 -32.50	2260	1500	3	Rafos-float 413 Fl-park
07 02	1745	175	-9	51 49.48	-029 -33.16	2310	1500	3	Rafos-float 412 Fl-park
07 02	1750	175	-9	51 49.48	-029 -33.16	2310	1500	3	Rafos-float 516
07 02	2010	176	011	51 44.95	-030 -00.08	3100	1003	2	FSI, M, S
07 02	2150	176	012	51 44.90	-030 -00.13	3150	3256	2	FSI, M, S
07 03	0747	177	-9	52 26.40	-029 -50.20	3833	1613	1	V396-01 / F recovery
07 03	1233	178	-9	52 48.18	-029 -57.80	3386	1718	1	V397-01 / G recovery
07 03	1533	179	013	52 25.92	-029 -49.88	3813	1005	2	FSI, M, S
07 03	1655	179	014	52 26.26	-029 -50.55	3809	3813	2	FSI, M, S
07 03	2157	180	015	52 47.92	-029 -58.80	3350	567	2	FSI; cable contact problems
07 04	0042	180	016	52 48.19	-029 -58.63	3350	3398	2	FSI, S
07 04	0808	181	-9	53 15.30	-030 -17.05	3100	2690	1	V398-01 / C recovery
07 04	0922	182	017	53 15.98	-030 -19.01	3060	3040	2	FSI, S
07 04	1456	183	018	53 34.93	-031 -04.32	3012	3012	2	FSI, M, S
07 04	2030	184	019	53 50.00	-031 -44.98	2850	2850	2	FSI, S
07 05	0055	185	020	54 03.99	-032 -16.01	2843	2845	2	FSI, S
07 05	0529	186	021	54 20.00	-032 -54.99	2774	2799	2	FSI, M, S; no bottom alarm, cable problems
07 05	1505	187	022	55 00.00	-031 -09.94	2826	2818	2	FSI, M, S
07 06	1040	188	023	56 37.00	-027 -50.18	-999	2898	2	FSI, S; calibrate microcats

Date year 2000 MM	DD	Time UTC hhmm	St	C	Latitude North DD	MM.MM	Longitude East DDD	MM.MM	Wd m	Inst. depth m	Inst. type	Samples / remarks
07	07	0120	189	024	58	00.04	-024	-59.98	2767	2768	2	FSI, M; no bottom alarm
07	07	1430	-9	-9	99	99	999	99	-999	1000	4	acoustic releases tested
07	07	2041	190	025	58	51.03	-020	-11.89	2876	2878	2	FSI, M, S; PC-Log: GPS fails
07	08	0325	191	026	59	19.97	-021	-00.02	2868	2868	2	FSI, S; PC-Log: GPS reset
07	07	0904	192	-9	59	46.80	-020	-56.65	2818	1440	1	V420-01 / W deployment
07	08	1115	193	027	59	48.05	-020	-54.79	2817	2817	2	FSI, S; CTD-cable 2 m shortened
07	08	2256	194	028	60	29.89	-017	-59.65	2577	2577	2	FSI, M, C, N, S; GEOSECS St. 23
07	09	1346	195	-9	60	30.50	-021	-36.05	2526	1400	1	V419-01 / O deployment
07	09	1516	196	029	60	31.21	-021	-39.40	2525	2517	2	FSI, M, S
07	09	1929	197	030	60	11.90	-021	-14.99	2714	2684	2	FSI, S
07	10	0208	198	031	60	47.05	-021	-50.92	2284	2254	2	FSI, S
07	10	0343	198	-9	60	47.08	-021	-49.34	2284	1500	3	Rafos-float 404
07	10	0815	199	-9	61	04.15	-022	-11.45	1960	1165	1	V418-01 / S deployment
07	10	0850	200	032	61	04.94	-022	-12.97	1942	1886	2	FSI, M, S
07	10	1415	201	-9	61	36.90	-022	-47.75	1800	1230	1	V417-01 / I CALLIE's LAST MOORING
07	10	1512	202	033	61	36.32	-022	-46.05	1818	1798	2	FSI, S
07	10	1833	203	034	61	22.07	-022	-29.68	1860	1830	2	FSI, S
07	11	0040	204	035	61	10.01	-020	-45.01	2264	2234	2	FSI, S
07	11	0444	205	036	60	49.96	-020	-11.83	2331	2276	2	FSI, S; no bottom alarm
07	11	0820	206	037	60	29.89	-019	-59.83	2535	2511	2	FSI, M, S
07	11	1422	207	038	61	03.00	-019	-17.09	2465	2435	2	FSI, S
07	11	2109	208	039	61	39.93	-020	-08.08	1921	1891	2	FSI, M, S
07	12	0350	209	040	61	46.99	-021	-29.96	1644	1614	2	FSI, S
07	12	0757	210	041	62	10.09	-020	-54.89	1501	1475	2	FSI, S
07	13	0718	211	042	62	10.05	-023	-16.06	1467	1441	2	FSI, S
07	13	1030	-9	-9	62	14.00	-023	-14.50	1365	4	4	vADCP off
07	13	1042	-9	-9	62	15.64	-023	-14.52	1365	4	4	PC-LOG off
-9	-9	-9	-9	-9	63	50	-23	-20	-9	-9	4	
-9	-9	-9	-9	-9	64	25	-22	-43	-9	-9	4	
07	14	0800	-9	-9	64	5.40	-21	-30.6	-9	-9	4	Reykjavik; end of P261


P261: moorings (*), CTD (o), Floats (+), others (x)
Reykjavik
< 2000 m
< 2000 m
Cork
Latitude North
Longitude East
65
60
55
50
−35
−30
−25
−20
−15
−10